

Pre Calculus Honors
1.2 Classwork

Simplify each expression. Write the final answer in the column on the right.
You may check your work with a calculator, but solve first without technology.

$9^{-1/2} + \sqrt{0.01}$	
$\frac{xx^{-1/3}}{2x^5}$	
$\frac{(x^{4/7}x^{9/2}x^{-10/3}-x^2x^{-9}x^{1/2})^0}{x+1}$	
$x^{3/5}x^2x^{-1/2}$	
$\frac{n^{-1}a+1}{a^2}$	

Key

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$9^{-1/2} + \sqrt{0.01}$ $\frac{1}{\sqrt{9}} + \sqrt{\frac{1}{100}}$ $\frac{1}{3} + \frac{1}{10} = \frac{10}{30} + \frac{3}{30}$	$\frac{13}{30}$
$\frac{xx^{-1/3}}{2x^5}$ $x^1 x^{-1/3} = x^{2/3}$ $\frac{x^{2/3}}{2x^5} = \frac{x^{2/3}}{2x^{15/3}} = \frac{x^{2/3}}{2x^5}$	<p>* dif. forms</p> $\frac{1}{2x^{13/3}}$ <p>* Discuss with PIKE if confused</p>
$\frac{(x^{4/7} x^{9/2} x^{-10/3} - x^2 x^{-9} x^{1/2})^0}{x+1}$	1
$x^{3/5} x^2 x^{-1/2}$ $x^{\frac{3}{5} + 2 + \frac{-1}{2}} = x^{\frac{6}{10} - \frac{5}{10}}$	<p>★</p> $x^{\frac{21}{10}}$ <p>or</p> $\sqrt[10]{x^{21}}$
$\frac{a}{na^2} + \frac{1}{a^2}$ $\frac{n^{-1}a+1}{a^2} = \frac{\frac{a}{n}+1}{a^2}$	$\frac{a \cdot 1}{a \cdot na} + \frac{1 \cdot n}{a^2 \cdot n}$ <p>↓</p> $\frac{a+n}{a^2 n}$

*rationalize

~~See~~
~~look~~

most
↓

or $x^2 \sqrt{x}$